

Table 1:

Physical properties of the alumina spheres

| Example | | 1 | 2 | 3 | 4 |
|---|---|-------|-------|-------|-------|
| Specific surface | (m ² /g) | 197 | 198 | 195 | 201 |
| Total pore volume | (ml/g) | 0.46 | 0.47 | 0.45 | 0.47 |
| Breaking strength | (N) | n.o. | 33 | 125 | 142 |
| Bulk density | (g/l) | 764 | 748 | 752 | 743 |
| Diameter | (μm) | 394 | 772 | 1685 | 2077 |
| Deviation from average diameter | (μm) | 11 | 14 | 40 | 22 |
| Standard deviation | (%) | 2.8 | 1.8 | 2.4 | 1.1 |
| Spheroidal shape | | | | | |
| Average value of d_{\max}/d_{\min} | | 1.015 | 1.012 | 1.039 | 1.039 |
| Spheres of $d_{\max}/d_{\min} < 1.09$ (%) | | 99 | 99 | 99 | 99 |
| Throughput | (kg of Al ₂ O ₃ /h) | 1.8 | 6.0 | 6.1 | 11.4 |

n.o. = not observed.